

Environmental Science and Policy, MS

The Master of Science in Environmental Science and Policy program emphasizes a broadly interdisciplinary and synthetic approach that integrates knowledge in the environmental sciences (conservation biology, climate change, fisheries science, ecosystem function, biodiversity, restoration ecology) with the social sciences (policy, economics, sociology, political science, and development) and humanities (environmental history, philosophy, and ethics). The goal of the program is to equip professionals with substantive breadth in knowledge and skills at the intersection of environmental science and policy. The program focuses on training students to think critically about the underlying causes of environmental problems and understanding the reciprocal relationships between coupled human-natural ecosystems and the interconnections between social and technological innovations. The program explores practical approaches and potential solutions that decision makers need to evaluate in policy debates related to promoting environmental sustainability.

Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

Core Requirements

Code	Title	Hours
Seminars		
PPUA 6101	Environmental Science and Policy Seminar 1	4
ENVR 6102	Environmental Science and Policy Seminar 2	4
Skills Courses		
Complete 6-8 semester hours from the following. At least one course needs to be taken from the College of Science Skills Course List and one course from the College of Social Sciences and Humanities Skills Course List.		6-8
<i>College of Science Skills Course List</i>		
EEMB 5130	Ecological Dynamics	
EEMB 5522	Experimental Design Marine Ecology	
ENVR 5210	Environmental Planning	
ENVR 5250	Geology and Land-Use Planning	
ENVR 5260	Geographical Information Systems	
ENVR 5400	Marine Science Policy and Ethics	
ENVR 6500	Biostatistics	
<i>College of Social Sciences and Humanities Skills Course List</i>		
LPSC 6313	Economic Analysis for Law, Policy, and Planning	
LPSC 7215	Advanced Quantitative Techniques	
LPSC 7305	Research and Statistical Methods	
LPSC 7311	Strategizing Public Policy	
POLS 7201	Research Design	
PPUA 5260	Ecological Economics	
PPUA 5261	Dynamic Modeling for Environmental Decision Making	
PPUA 5263	Geographic Information Systems for Urban and Regional Policy	
PPUA 5301	Introduction to Computational Statistics	

PPUA 6205	Research Design and Methodology in Urban and Regional Policy
PPUA 6207	Research Toolkit for Urban and Regional Policy: Survey Techniques
PPUA 6209	Research Toolkit for Urban and Regional Policy: Working with Datasets
PPUA 6210	Research Toolkit for Urban and Regional Policy: Cost/Benefit Analysis
PPUA 6212	Research Toolkit for Urban and Regional Policy: Project Management
PPUA 6213	Research Toolkit for Urban and Regional Policy: Data Visualization
PPUA 6216	Research Toolkit for Urban and Regional Policy: Grant Writing
PPUA 6502	Economic Institutions and Analysis
PPUA 6506	Techniques of Policy Analysis
PPUA 6509	Techniques of Program Evaluation
PPUA 7237	Advanced Spatial Analysis of Urban Systems
SOCL 7211	Research Methods

Electives

Any skills course not taken to fulfill the skills courses requirement can be taken as an elective. Students must take three electives from the College of Science and three from the College of Social Science and Humanities. Students may petition to enroll in other relevant graduate courses offered by other schools at Northeastern University.

COLLEGE OF SCIENCE ELECTIVE LIST

Code	Title	Hours
Complete three from the following:		12
EEMB 5518	Ocean and Coastal Processes	
EEMB 5528	Marine Conservation Biology	
EEMB 5536	Ocean and Coastal Sustainability	
EEMB 5548	Sociobiology	
ENVR 5210	Environmental Planning	
ENVR 5250	Geology and Land-Use Planning	

COLLEGE OF SOCIAL SCIENCES AND HUMANITIES ELECTIVE LIST

Code	Title	Hours
Complete three from the following:		12
LPSC 7311	Strategizing Public Policy	
LPSC 7312	Cities, Sustainability, and Climate Change	
PHTH 5214	Environmental Health	
PHTH 5230	Global Health	
PHTH 5440	Community-Based Participatory Research: Environmental Health	
PPUA 5260	Ecological Economics	
PPUA 5262	Big Data for Cities	
PPUA 5264	Energy Transitions and Climate Resilience: Technology, Policy, and Social Change	
PPUA 5266	Urban Theory and Science	

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PPUA 5270	Food Systems and Public Policy
PPUA 5275	Philanthropy and Civil Society
PPUA 5302	Information Design and Visual Analytics
PPUA 5390	Special Topics in Public Policy and Urban Affairs
PPUA 6201	The 21st-Century City: Urban Opportunities and Challenges in a Global Context
PPUA 6204	Urban Development and Politics
PPUA 6505	Public Budgeting and Financial Management
PPUA 6506	Techniques of Policy Analysis
PPUA 6522	Administrative Ethics and Public Management
PPUA 6551	Nonprofit Organizations and Social Change
PPUA 6552	The Nonprofit Sector in Civil Society and Public Affairs
PPUA 6553	Nonprofit Financial Resource Development
PPUA 6862	Internship with Research
PPUA 6966	Practicum
PPUA 7225	The Open Classroom: Public Debates on Public Policy
PPUA 7230	Housing Policy
PPUA 7234	Land Use and Urban Growth Policy
PPUA 7239	Problems in Metropolitan Policymaking
PPUA 7249	Urban Coastal Sustainability
PPUA 7231	Transportation Policy
PPUA 7336	Social Capital and Resilience
PPUA 7346	Resilient Cities
PPUA 7673	Capstone in Public Policy and Urban Affairs
SOCL 7211	Research Methods
SOCL 7230	Political Ecology of Global Capitalism
SOCL 7235	Urban Sociology
SOCL 7243	Sociology of Health and Illness
SOCL 7257	Contemporary Issues in Sociology
SOCL 7267	Environment, Health, and Society
SOCL 7287	Social Movements in Health

Program Credit/GPA Requirements

Note: Typically, students will complete 12–16 semester hours of seminar and skills courses and 18–24 semester hours of electives.

36 total semester hours required

Minimum 3.000 GPA required